

Patent Abstracts of Japan

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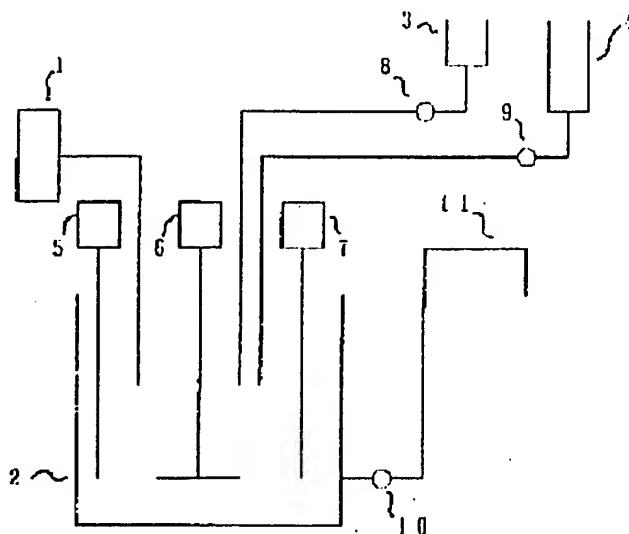
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TITLE : TREATMENT OF WASTE WATER  
FROM CHEMICAL/MECHANICAL  
POLISHING



**ABSTRACT :** PROBLEM TO BE SOLVED: To lessen the deterioration of a high polymer porous membrane and to reuse filtered water when treating CPM waste water using the high polymer porous membrane filter by decomposing hydrogen peroxide in waste water in advance and feeding the waste water to the filter.

**SOLUTION:** From a chemical/mechanical polishing (CPM) device 1, CPM waste water containing hydrogen peroxide and alumina abrasive grains is discharged to a pretreating tank 2. NaOH aqueous solution in a neutralizer tank 3 is injected by an injection pump 8 and hydrogen peroxide decomposing enzyme in a hydrogen peroxide decomposing agent tank 4 is injected by a fixed delivery injection pump 9, and the mixture is agitated by an agitator 6. The treated liquid in which hydrogen peroxide is thus decomposed in the pretreatment tank 2 is transferred to a circulation tank through liquid transfer piping 11 by a liquid transfer pump 10, and enters a high polymer membrane through a circulating pump, and is separated into filtrate and concentrate there. The filtrate is used as washing water through an ion exchange tower.

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